



Thursday, June 25, 2020

Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Project ID: GULF CHELSEA TERMINAL 60597375-0500
SDG ID: GCG18481
Sample ID#s: CG18481 - CG18483

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

June 25, 2020

SDG I.D.: GCG18481

Project ID: GULF CHELSEA TERMINAL 60597375-0500

Client Id	Lab Id	Matrix
OUTFALL 003	CG18481	SW DISCHARGE
TRIP BLANK 1	CG18482	SW DISCHARGE
TRIP BLANK 2	CG18483	SW DISCHARGE



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Analysis Report

June 25, 2020

FOR: Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: SW DISCHARGE
Location Code: AECOME-GULF
Rush Request: 72 Hour
P.O.#: 112185

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

06/19/20
06/22/20

Time

13:50
14:20

Laboratory Data

SDG ID: GCG18481
Phoenix ID: CG18481

Project ID: GULF CHELSEA TERMINAL 60597375-0500
Client ID: OUTFALL 003

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Oil and Grease by EPA 1664A	< 1.4	1.4	mg/L	1	06/24/20	MSF	EPA 1664
pH	8.00	1.00	pH Units	1	06/22/20 19:43	AP	SM4500-H B-11
Total Suspended Solids	24	3.3	mg/L	0.7	06/23/20	EP/ARG	SM 2540D-11
Semi-Volatile Extraction	Completed				06/23/20	AT/AK	SW3520C

Aromatic Volatiles w/Napthalene

Benzene	ND	1.0	ug/L	1	06/22/20	MH	E624.1
Napthalene	ND	1.0	ug/L	1	06/22/20	MH	E624.1

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	105		%	1	06/22/20	MH	70 - 130 %
% Bromofluorobenzene	93		%	1	06/22/20	MH	70 - 130 %
% Dibromofluoromethane	101		%	1	06/22/20	MH	70 - 130 %
% Toluene-d8	101		%	1	06/22/20	MH	70 - 130 %

Semivolatiles by SIM, PAH

Benzo(a)pyrene	ND	0.10	ug/L	1	06/24/20	WB	E625.1
Napthalene	ND	0.53	ug/L	1	06/24/20	WB	E625.1

QA/QC Surrogates

% 2-Fluorobiphenyl	48		%	1	06/24/20	WB	40 - 140 %
% Nitrobenzene-d5	62		%	1	06/24/20	WB	40 - 140 %
% Terphenyl-d14	45		%	1	06/24/20	WB	40 - 140 %

Client ID: OUTFALL 003

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
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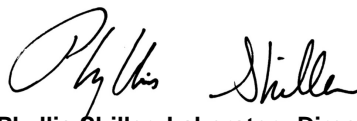
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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**Phyllis Shiller, Laboratory Director****June 25, 2020****Reviewed and Released by: Rashmi Makol, Project Manager**



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Analysis Report

June 25, 2020

FOR: Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: SW DISCHARGE
Location Code: AECOME-GULF
Rush Request: Standard
P.O.#: 112185

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

06/19/20

Time

14:20

06/22/20

Laboratory Data

SDG ID: GCG18481
Phoenix ID: CG18482

Project ID: GULF CHELSEA TERMINAL 60597375-0500
Client ID: TRIP BLANK 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Aromatic Volatiles w/Napthalene</u>							
Benzene	ND	1.0	ug/L	1	06/22/20	MH	E624.1
Napthalene	ND	1.0	ug/L	1	06/22/20	MH	E624.1
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	1	06/22/20	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/22/20	MH	70 - 130 %
% Dibromofluoromethane	101		%	1	06/22/20	MH	70 - 130 %
% Toluene-d8	102		%	1	06/22/20	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

June 25, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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Analysis Report

June 25, 2020

FOR: Attn: Ms. Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information

Matrix: SW DISCHARGE
Location Code: AECOME-GULF
Rush Request: Standard
P.O.#: 112185

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

06/19/20

Time

06/22/20 14:20

Laboratory Data

SDG ID: GCG18481
Phoenix ID: CG18483

Project ID: GULF CHELSEA TERMINAL 60597375-0500
Client ID: TRIP BLANK 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Aromatic Volatiles w/Napthalene</u>							
Benzene	ND	1.0	ug/L	1	06/22/20	MH	E624.1
Napthalene	ND	1.0	ug/L	1	06/22/20	MH	E624.1
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	103		%	1	06/22/20	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/22/20	MH	70 - 130 %
% Dibromofluoromethane	103		%	1	06/22/20	MH	70 - 130 %
% Toluene-d8	101		%	1	06/22/20	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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June 25, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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QA/QC Report

June 25, 2020

QA/QC Data

SDG I.D.: GCG18481

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 534607 (pH), QC Sample No: CG18316 (CG18481)													
pH			7.36	7.28	1.10	99.2						85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 534638 (mg/L), QC Sample No: CG18441 (CG18481)													
Total Suspended Solids	BRL	2.5	<3.3			94.0						85 - 115	
QA/QC Batch 534797 (mg/L), QC Sample No: CG19016 (CG18481)													
Oil and Grease by EPA 1664A	BRL	1.4				97.0	96.0	1.0				85 - 115	20
Comment:													
Additional: MS acceptance range 75-125%.													



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QA/QC Report

June 25, 2020

QA/QC Data

SDG I.D.: GCG18481

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 534682 (ug/L), QC Sample No: CG18359 (CG18481)										
<u>Semivolatiles by SIM, PAH</u>										
Benzo(a)pyrene	ND	0.02	61	78	24.5				40 - 140	20 r
Naphthalene	ND	0.50	44	53	18.6				40 - 140	20
% 2-Fluorobiphenyl	48	%	51	53	3.8				40 - 140	20
% Nitrobenzene-d5	50	%	50	55	9.5				40 - 140	20
% Terphenyl-d14	76	%	64	71	10.4				40 - 140	20

Comment:

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 10-110%, for soils 30-130%)

QA/QC Batch 534678 (ug/L), QC Sample No: CG18482 (CG18481, CG18482, CG18483)

Volatiles

Benzene	ND	0.70	112	109	2.7	110	112	1.8	65 - 135	20
Naphthalene	ND	1.0	130	124	4.7	121	127	4.8	70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	99	99	0.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	94	%	100	101	1.0	101	99	2.0	70 - 130	30
% Dibromofluoromethane	100	%	100	98	2.0	101	99	2.0	70 - 130	30
% Toluene-d8	99	%	100	100	0.0	97	98	1.0	70 - 130	30

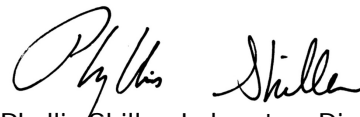
Comment:

A blank MS/MSD was analyzed with this batch.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
June 25, 2020

Thursday, June 25, 2020

Criteria: None
State: MA

Sample Criteria Exceedances Report
GCG18481 - AECOME-GULF

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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Analysis Comments

June 25, 2020

SDG I.D.: GCG18481

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

